

**Supplementary 2.** Visualization of pain rates  $p_1$  vs. agitation rates  $a_1$  per patient. Both rates are represented on the vertical axis and expressed in [pcnt/month]. The number of patients is represented on the horizontal axis. For clarity, the visualization shows the [-10, 10] [pcnt/month] intervals out of the maximum [-100, 100] [pcnt/month] normalized scales.